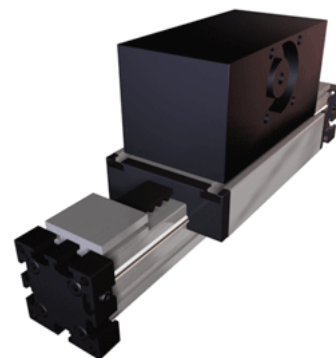
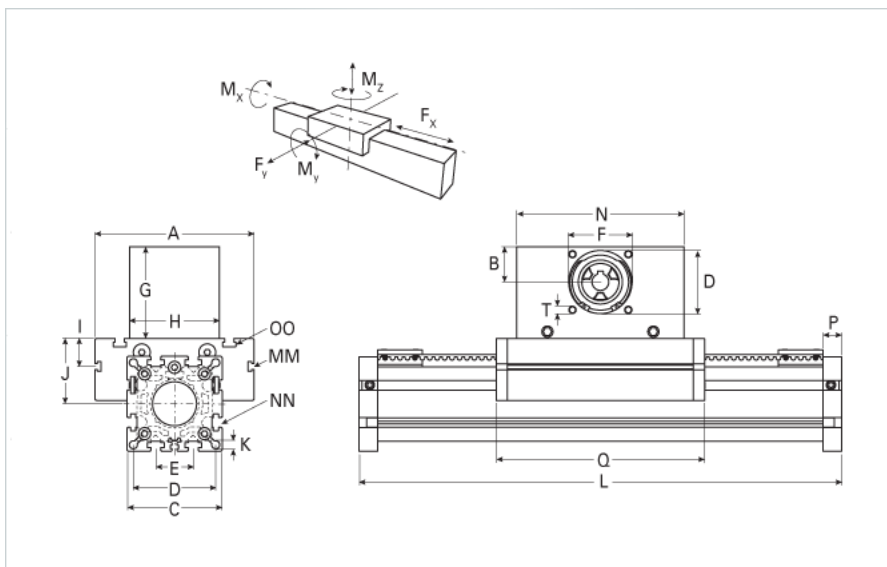


## ELSZ 125

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### Details

|                 |      |
|-----------------|------|
| Size            | 125  |
| Belt            | 8M70 |
| mm/Rev          | 304  |
| Number of Teeth | 38   |

### Dimensions

|                                |         |
|--------------------------------|---------|
| Basic Length L [mm]            | 595     |
| A [mm]                         | 295     |
| B [mm]                         | 62      |
| C [mm]                         | 165     |
| D [mm]                         | 110     |
| E [mm]                         | 60      |
| F [mm]                         | 100     |
| G [mm]                         | 139     |
| H [mm]                         | 160     |
| I [mm]                         | 30      |
| J [mm]                         | 107.5   |
| K [mm]                         | M10     |
| MM                             | M10     |
| N [mm]                         | 310     |
| NN                             | M12     |
| O [mm]                         | 140     |
| OO                             | M12     |
| P [mm]                         | 30      |
| Q [mm]                         | 365     |
| T                              | M10     |
| V [mm]                         | -       |
| Shaft Diameter and Length [mm] | 30 x 55 |
| Key                            | 8x7x50  |

### Speed

|                     |    |
|---------------------|----|
| Speed Maximum [m/s] | 10 |
|---------------------|----|

### Forces and Torques

|                             |       |
|-----------------------------|-------|
| No-load torque [Nm]         | 1.8   |
| Tensile force 0.2 sec [N]   | 6350  |
| Tensile force permanent [N] | 5900  |
| Fx dynamic [N]              | 5750  |
| Fy dynamic [N]              | 9000  |
| Fz dynamic [N]              | 4500  |
| Mx dynamic [Nm]             | 450   |
| My dynamic [Nm]             | 600   |
| Mz dynamic [Nm]             | 1150  |
| Fx static [N]               | 5900  |
| Fy static [N]               | 12000 |
| Fz static [N]               | 6000  |
| Mx static [Nm]              | 600   |
| My static [Nm]              | 750   |
| Mz static [Nm]              | 1350  |

### Geometrical moments of inertia of aluminum profile

|                                      |          |
|--------------------------------------|----------|
| Elastic modulus [N/mm <sup>2</sup> ] | 70000    |
| Ix [mm <sup>4</sup> ]                | 10150000 |
| Iy [mm <sup>4</sup> ]                | 10150000 |
| Weight                               |          |
| Additional Weight per 100 mm [kg]    | 1.94     |
| Basic Weight [kg]                    | 54.5     |
| Values for Calculating Inertias      |          |
| Pulley Material - Drive Pulley (x1)  | Aluminum |
| Pulley Material - Idler Pulleys (x2) | Aluminum |
| Pulley Diameter [mm]                 | 96.77    |
| Effective Pulley Width [mm]          | 160      |
| Belt Weight [kg/m]                   | 0.480    |
| Standard Carriage Weight [kg]        | 29.60    |
| No-load torque [Nm]                  | 1.8      |
| Friction Coefficient                 | 0.01     |